

PATENT ABSTRACTS OF JAPAN

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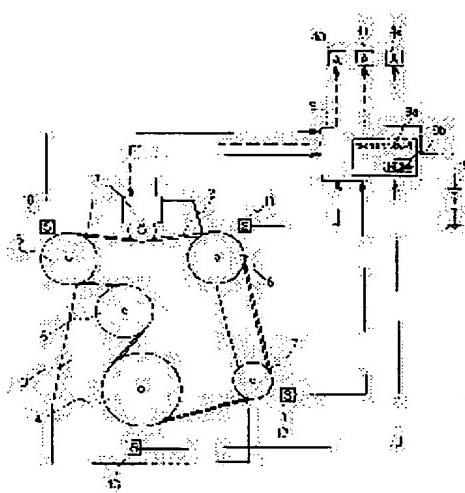
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(54) BELT TENSION CONTROL DEVICE

(57)Abstract:

PURPOSE: To maintain transmission efficiency of the belt to be highest in such a way that belt tension is given so as to be the optimum belt tension which has been calculated not by means of elongation of the belt within allowable range owing to hourly changes, but at all times in response to driving torque of the auxiliary machinery in the engine.

CONSTITUTION: In a structure in which revolution of a crank pulley 4 which is turned by operation of the engine is transmitted through a V-belt 2 to pulleys 5 to 8 on driving shafts of various auxiliary machinery, an electronic control circuit 9 is provided which has ROM9b within for memorizing the necessary data to calculate the belt tension in each condition. Each output signal from a clutch operation detecting sensor 10, a pump discharge pressure detecting sensor 11 for the power steering, a load current detecting sensor 12 of an alternator, and an engine revolution number detecting sensor 13 in the compressor for an air conditioner is given as input to the circuit 9. And belt tension setting signals to maximize the belt power transmission efficiency are generated from these signals so as to work a belt tension addable device 1.



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